

SYMBOLS (AS APPLICABLE)

FULLY SPRINKLERED

VA FORM 08-6231

UPDATED: 5/9/2014 3:41:47 PM

NOTES:

1. SIDE DISCHARGE, REAR INLET.
2. FIELD PROVIDE AND INSTALL DUCT SMOKE DETECTOR AT SUPPLY AND RETURN DUCT TO SHUT DOWN UNIT UPON DETECTION OF SMOKE. PROVIDE OUTSIDE AIR MONITORING STATION
3. DRAW THROUGH COIL.
4. DOUBLE WALL CASING WITHOUT PERFORATIONS.
5. INSULATED, STAINLESS STEEL, DOUBLE WALL, DOUBLE SLOPED DRAIN PAN.
6. COPPER TUBE, ALUMINUM FIN DX COOLING COIL.
7. TWO PRE FILTERS UPSTREAM OF COILS: MERV 7-2" AND MERV 13-6".
8. MANUAL DUAL TYPE PRESSURE GAUGE WITH AIR TUBING AND 3 ISOLATION BALL VALVES TO MEASURE PRESSURE DIFFERENTIAL ACROSS EACH FILTER.
9. VFDS FOR SUPPLY AND RETURN FAN PROVIDED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
10. SINGLE 460V ELECTRICAL CONNECTION PROVIDED W/ STEPDOWN TRANSFORMER FOR 120V CONVENIENCE OUTLET.

* 9600 INCLUDES THE 10% UP SIZE FOR DUCT LEAKAGE PER THE VA STANDARDS.

NOTES:

1. 1-1/2 HR RATED DAMPER
2. UL 555 RATED, LEAKAGE CLASS 1
3. ELECTRIC ACTUATOR, 120V POWER
4. EFL SET TO 165 DEG F
5. UL LISTING: UL555/UL555S
6. CFSM LISTING NO: 3225-245-107; 3230-245-108

DESIGN CONDITIONS	SUMMER			WINTER			LOWEST AVERAGE ANNUAL DEWPOINT	
	TEMP	WET BULB TEMP	% HUMIDITY	TEMP	DEWPOINT TEMP	% HUMIDITY	'F	[°C]
	'F	'F		'F	'F			
OUTDOOR DESIGN CONDITIONS	88	65	HR-57	36	-	-	-	-
INDOOR AREA DESIGN CONDITIONS								
1st/2nd Floor	75	62	HR-50	70	50	HR-50		

MARK	TYPE	MAX APD	MOUNTING	PANEL/FRAME SIZE	NECK SIZE	NC	REMARKS
		IN WG		IN x IN	IN		
CD-1	CEILING SUPPLY	0.10	LAY IN	24x24	SEE PLANS	30	TITUS OMNI
SG-1	DOUBLE DEFLECTION SUPPLY	0.10	FLUSH	12x8	10x6	30	TITUS 272 RL
WG-1	WALL SUPPLY	0.10	FLUSH	8x8	6x6	30	TITUS 272 RL

NOTES:

1. FINISH TO BE COORDINATED WITH ARCHITECT.

MARK	TYPE	AIR FLOW		MAX APD	MOUNTING	PANEL/FRAME SIZE	NECK SIZE	NC (MAX)	REMARKS
		MIN	MAX						
		CFM	CFM						
CR-1EG-1	PERFORATED CEILING	-	2000	0.100	LAY IN	24x24	22x22	30	TITUS PAR
TG-1	SIDEWALL DOUBLE DEP	-	600	0.100	SIDE WALL	14x14	12x12		TITUS 272 RL
NOTES									
1. FINISH TO BE COORDINATED WITH ARCHITECT.									

CJFC-1	101	101	WALL MOUNT	570	0	18	12.7	18	80	67	[95]	8	15	1	208	DAIKIN FTXN18KVJU, RKN18KEVJU
CJFC-2	103	103	WALL MOUNT	570	0	18	12.7	18	80	67	[95]	8	15	1	208	DAIKIN FTXN18KVJU, RKN18KEVJU
CJFC-3	108	108	WALL MOUNT	570	0	18	12.7	18	80	67	[95]	8	15	1	208	DAIKIN FTXN18KVJU, RKN18KEVJU
CJFC-4	206	206	WALL MOUNT	570	0	18	12.7	18	80	67	[95]	8	15	1	208	DAIKIN FTXN18KVJU, RKN18KEVJU
CJFC-5	100	100	WALL MOUNT	570	0	18	12.7	18	80	67	[95]	8	15	1	208	DAIKIN FTXN18KVJU, RKN18KEVJU

NOTES:

1. FUSED DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
2. PROVIDE UNIT WITH WIRELESS REMOTE CONTROL FOR INDEPENDENT STAND ALONE CONTROL OF ALL UNIT FUNCTIONS.
3. PROVIDE UNIT WITH 7 DAY PROGRAMMABLE WALL MOUNTED FACTORY THERMOSTAT.
4. PROVIDE UNIT WITH CONDENSATE PUMP. TERMINATE CONDENSATE LINE IN CODE APPROVED LOCATION.

MARK	LOCATION	AREA AND/OR BLDG SERVED	AIR FLOW	TSP	TYPE	WHEEL	FAN ARRANGEMENT, ROTATION, AND DISCHARGE	DIAMETER	DRIVE	FAN MAX RPM	HP	PHASE	VOLT	RPM	SPEED CONTROL	CONTROL SEQUENCE	REMARKS
			CFM	IN				IN									
EF-1	ROOF	RESTROOMS	800	0.3	CENTRIFUGAL	BACK INCL.	DOWNBLAST	16	DIRECT	986	0.167	1	115	986	YES	TIMECLOCK	COOK - ACE-D 12K/19D
NOTES:																	
1. FACTORY PROVIDED GALVANIZED STEEL ROOF CURB.																	
2. ODP MOTOR ENCLOSURE.																	

MARK	TYPE	AIR FLOW		MAX APD	MIN THROW	MAX THROW	# OF SLOTS	SLOT WIDTH	PANEL/FRAME SIZE	NECK APD	THROW PATTERN	NC	REMARKS
		MIN	MAX										
		CFM	CFM										
LD-1	FLOWBAR	300	1000	0.10	9	23	2	3"	IN	IN	HIGH	30	TITUS FL 30
LD-2	FLOWBAR	30	200	0.10	7	20	1	1"	60	6	JET	30	TITUS FL 20
LD-3	FLOWBAR	30	200	0.10	7	20	1	1"	60	6	HIGH	30	TITUS FL 20
NOTES													
1. COORDINATE FINISH WITH ARCHITECT.													


MARK	LOCATION	AREA AND/OR ROOM SERVED	SYSTEM AIR HANDLING	SIZE (IN)	AIR FLOW		ADDITIONAL SOUND ATTENUATION REQUIRED	CONTROL TYPE	REHEAT		REMARKS
					MAX	MIN			ELEC (KW)	V/PH	
					CFM	CFM					
VAV 1-1	100	100	AHU-1	12	1000	369	5' SOUND ATTENUATOR	DDC	4	208/1	TITUS DESV WITH ELECTRIC REHEAT
VAV 1-2	100	100	AHU-1	14	2000	600	5' SOUND ATTENUATOR	DDC	8	208/1	TITUS DESV WITH ELECTRIC REHEAT
VAV 1-3	100	100	AHU-1	16	3000	900	5' SOUND ATTENUATOR	DDC	12	208/1	TITUS DESV WITH ELECTRIC REHEAT
VAV 1-4	112	104, 110	AHU-1	10	660	300	5' SOUND ATTENUATOR	DDC	4	208/1	TITUS DESV WITH ELECTRIC REHEAT
VAV 2-1	200	200	AHU-1	10	600	300	5' SOUND ATTENUATOR	DDC	4	208/1	TITUS DESV WITH ELECTRIC REHEAT
VAV 2-2	209	209	AHU-1	12	1200	425	5' SOUND ATTENUATOR	DDC	6	208/1	TITUS DESV WITH ELECTRIC REHEAT
VAV 2-3	210	210	AHU-1	12	1200	425	5' SOUND ATTENUATOR	DDC	6	208/1	TITUS DESV WITH ELECTRIC REHEAT
VAV 2-4	204	201	AHU-1	10	560	300	5' SOUND ATTENUATOR	DDC	4	208/1	TITUS DESV WITH ELECTRIC REHEAT

NOTES

- MECHANICAL CONTRACTOR TO FIELD VERIFY CONTROLS SECTION LOCATION PRIOR TO ORDERING.
- PROVIDE SCR CONTROLLED ELECTRIC HEATER OPTION.

Revision	DATE
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KPA Project No. 563.00

Drawing Title


MECHANICAL SCHEDULES

Approved: Project Director

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VAPAHCS PLANNING AND ENGINEERING

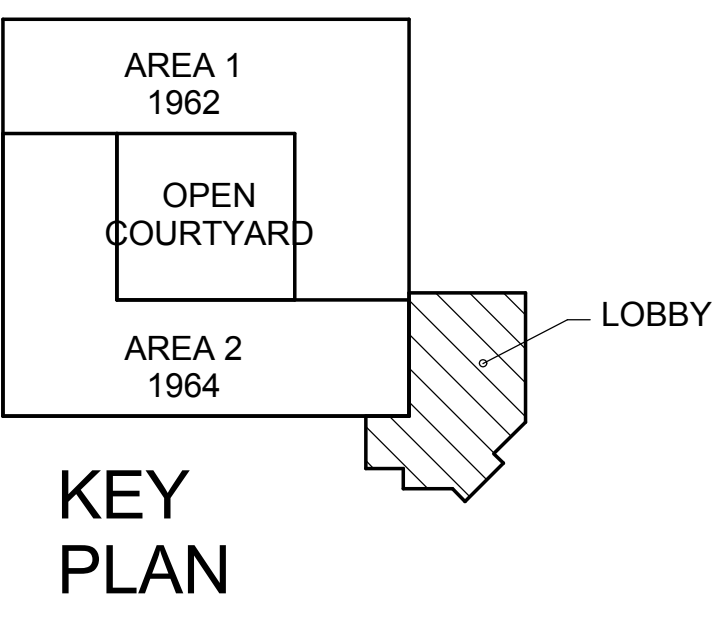
Project Title NEW OFFICE AND LABS			Project Number 640-379		Office of Construction and Facilities Management
			Building Number 1002		
Location 1080 INNOVATION WAY, SUNNYVALE, CA 94085			Drawing Number M-002		
Date 05/09/2014	Checked SS	Drawn JP	Dwg. of		
					 Veterans Affairs Palo Alto Health Care System

KEY NOTES:

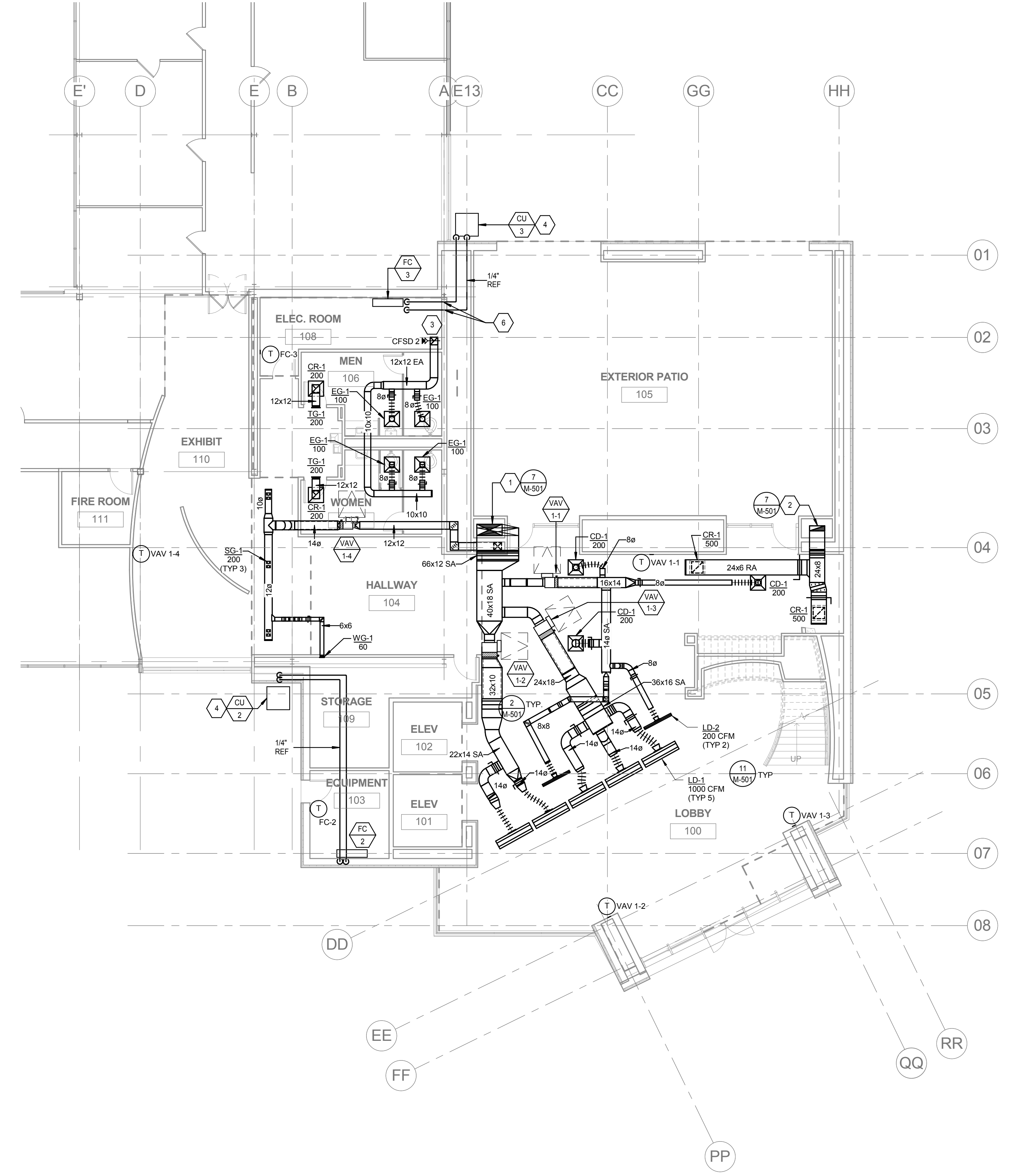
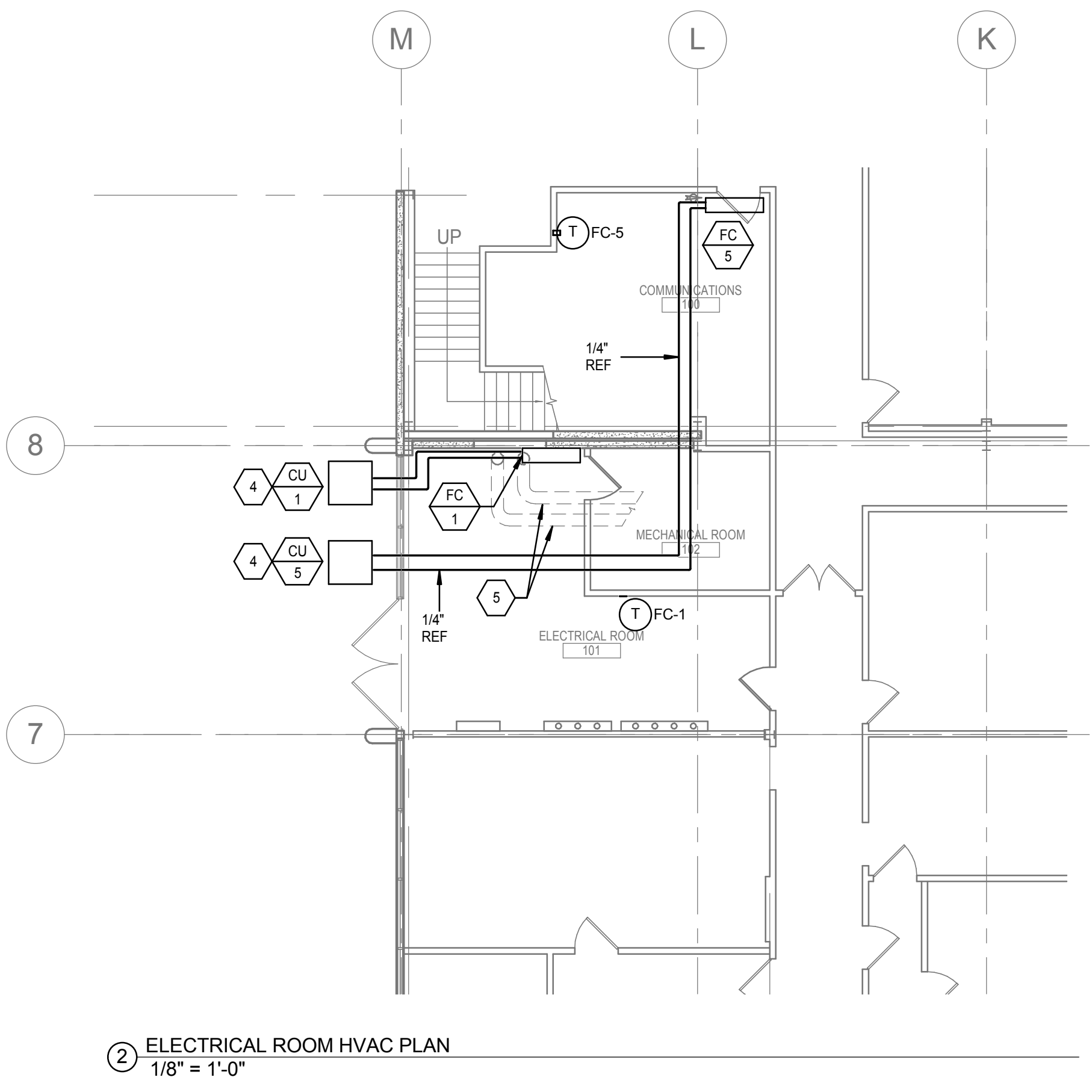
- SUPPLY AIR DUCT DOWN FROM SECOND FLOOR. COMBINATIO FIRE/SMOKE DAMPER AT SECOND FLOOR OPENING.
- RETURN AIR DUCT DOWN FROM SECOND FLOOR. COMBINATIO FIRE/SMOKE DAMPER AT SECOND FLOOR OPENING.
- EXHAUST AIR DUCT DOWN FROM SECOND FLOOR. INSTALL COMBINATIO FIRE SMOKE DAMPER IN SECOND FLOOR SLAB WITH ACCESS PANEL AND ACTUATOR LOCATED ABOVE 1ST FLOOR CEILING. CONNECT FSD TO NEAREST SMOKE DETECTOR.
- MOUNT CONDENSING UNIT ON HOUSEKEEPING PAD. REFER TO STRUCTURAL DRAWINGS.
- DEMO ALL ABANDONED CHILLED WATER PIPING AND ASSOCIATED FITTINGS IN THIS SPACE. PATCH EXTERIOR WALL WHERE PIPING ENTERS BUILDING AS NEEDED.
- PROVIDE PIPING BREAKWAY CONNECTION AT EXPANSION JOINT.

SHEET NOTES:

- ALL DUCT UPSTREAM OF VAV BOX SHALL BE 2" PRESSURE RATED. ALL DUCTWORK DOWNSTREAM OF VAV BOX TO BE 1/2" PRESSURE RATED.
- ALL EXHAUST DUCTWORK SHALL BE 1" PRESSURE RATED.
- ALL RETURN DUCTWORK SHALL BE 1" PRESSURE RATED.
- FLEXIBLE DUCT SHALL NOT BE LONGER THAN 5'. FLEXIBLE DUCT SHALL ONLY BE INSTALLED AT DUCT RUNOUT CONNECTION TO DIFFUSER/GRILLE.
- ALL SUPPLY, RETURN, AND EXHAUST DUCT BRANCHES DAMPER AS FAR BACK FROM THE DIFFUSER AS POSSIBLE IN AN ACCESSIBLE LOCATION. MANUAL DAMPERS NOT SHOWN ON FLOOR PLANS. ALL DIFFUSERS IN AREA WITH HARD CEILING SHALL BE PROVIDED WITH REMOTE CABLE BALANCING DAMPER. LOCATE BALANCING MECHANISM IN UNOCCUPIED SPACES AND COORDINATE PLACEMENT WITH ARCHITECT.



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1 LEVEL 1 HVAC PLAN
1/8" = 1'-0"

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Drawing Title
MECHANICAL HVAC FIRST FLOOR PLAN

Approved: Project Director
-
VAPAHCS PLANNING AND ENGINEERING

Project Title
NEW OFFICE AND LABS

Location
1080 INNOVATION WAY, SUNNYVALE, CA 94085
Date
05/09/2014
Checked
SS
Drawn
JP

Project Number
640-379
Building Number
1002

Drawing Number
MH-101
Dwg. of

Office of
Construction
and Facilities
Management





- FULLY SPRINKLERED

UPDATED: 5/9/2014 3:41:56 PM

A
B
C
D
E
F

lines inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

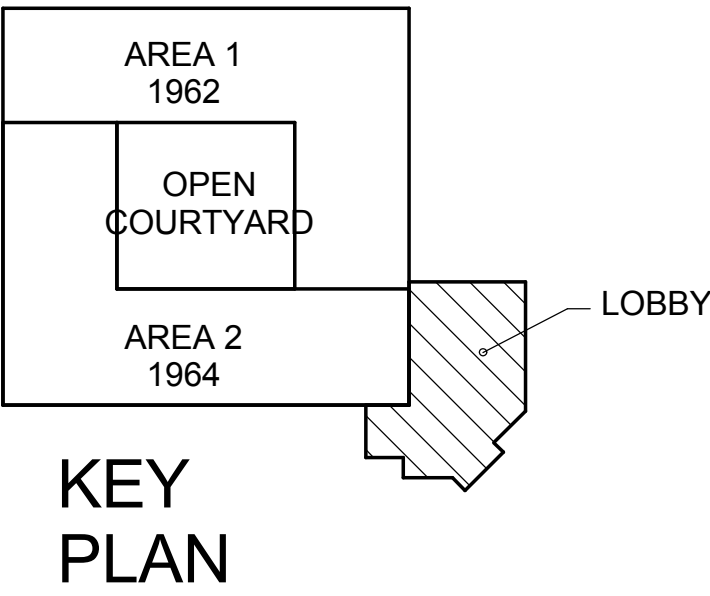
KEY NOTES:

- SUPPLY AIR DUCT DOWN TO SECOND FLOOR.
- RETURN AIR DUCT DOWN TO SECOND FLOOR.
- 24"x18" ELEVATOR HOISTWAY SMOKE VENT DAMPER AND HOOD. EXACT LOCATION TO BE COORDINATED WITH ARCHITECT. ELECTRONIC MOTOR ACTUATOR TO BE INTERCONNECTED WITH THE SMOKE DETECTOR/FIRE ALARM CONTROL PANEL. NORMALLY CLOSED. SEE SCHEDULES FOR SPECIFICATIONS.
- ROOFTOP AC UNIT TO HAVE THE FOLLOWING CLEARANCES:
OUTSIDE AIR: 48"
CONTROLS: 48"
LEFT SIDE: 48"
RIGHT SIDE: 70"
TOP: UNOBSTRUCTED
- MOUNT ROOFTOP UNIT ON HOUSEKEEPING PAD. REFER TO STRUCTURAL DRAWINGS.
- 12" MIN HIGH ROOF CURB FOR DUCT WORK. REFER TO ARCHITECTURAL DRAWINGS FOR DETAIL.
- MOUNT CONDENSING UNIT ON HOUSEKEEPING PAD. REFER TO STRUCTURAL DRAWINGS.





SHEET NOTES:

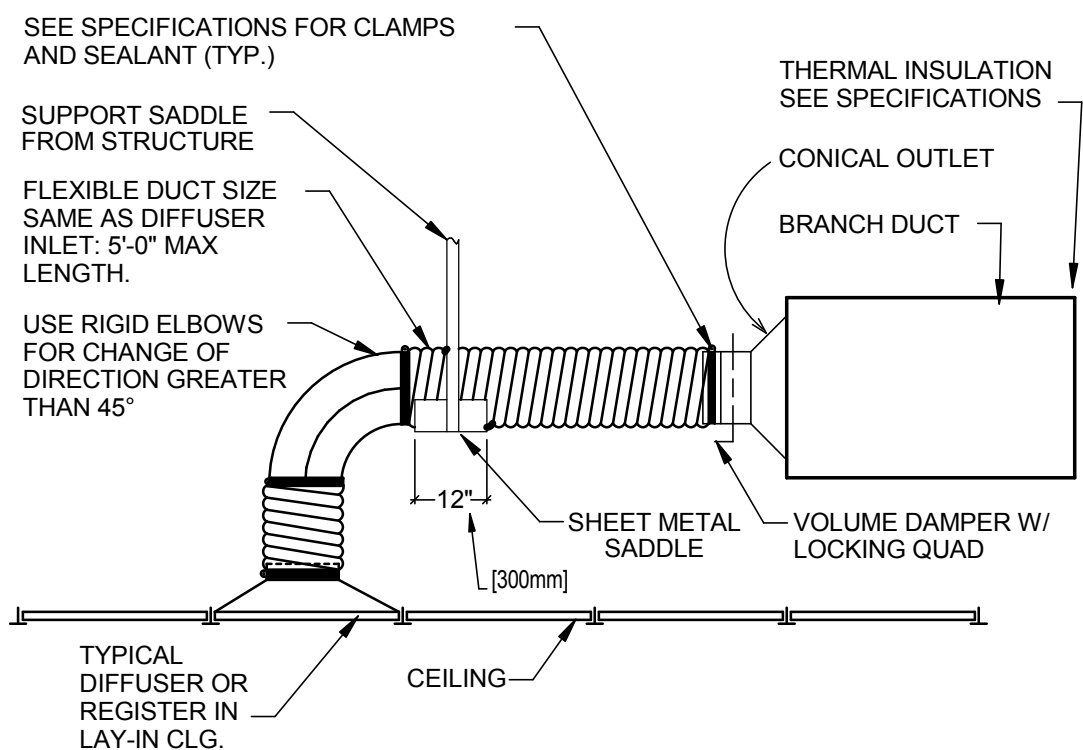
- REFER TO SHEET M-002 TO PROVIDE ALL EQUIPMENT ACCESSORIES AND OPTIONS SPECIFIED.
- REFER TO SHEET MH-102 FOR CONTINUATION OF HVAC WORK.

1 ROOF HVAC PLAN
1/8" = 1'-0"



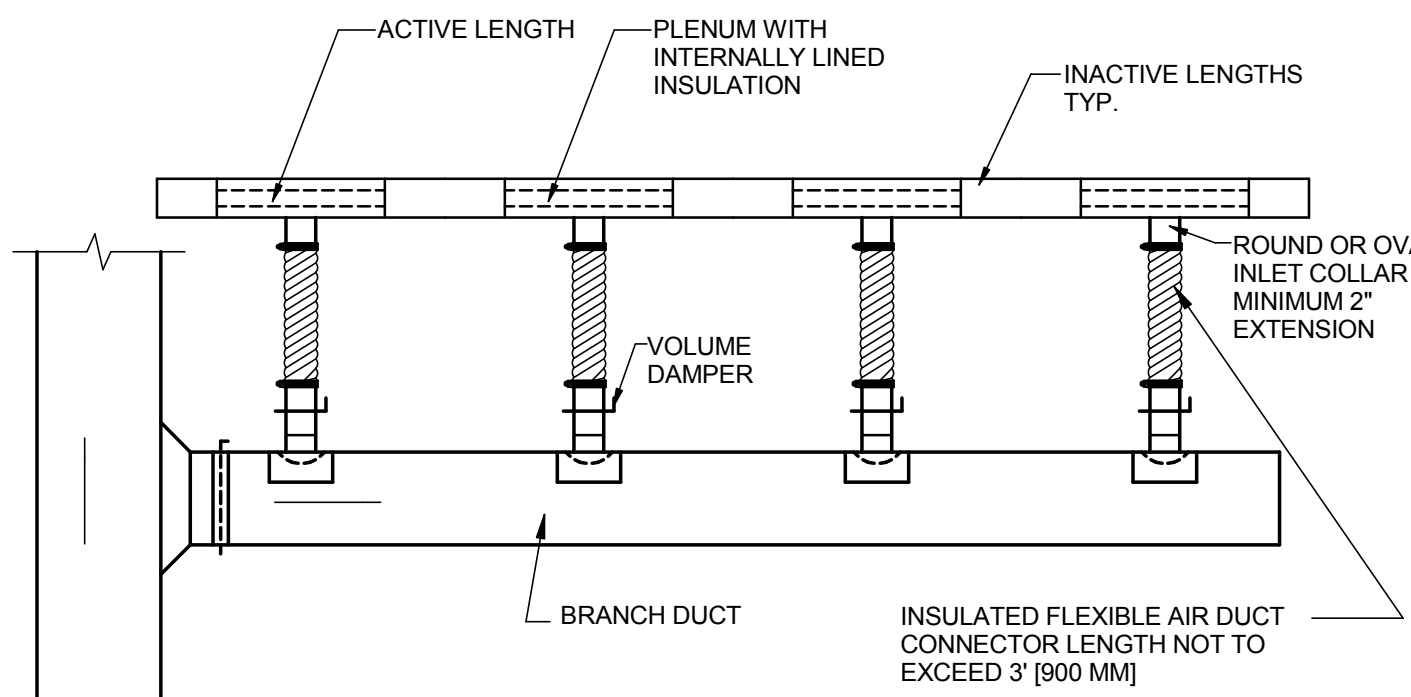
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<div>Revision</div> <div>DATE</div>		CONSULTANTS: <div>SYSKA HENNESSY GROUP <small>A member company of SH Group, Inc.</small></div> <div>Syska Hennessy Group, Inc. 425 California Street Suite 700 San Francisco, CA 94104 Tel: 415.258.9560 Fax: 415.835.0385 www.syska.com</div>		<div>Stamp and Signature</div> <div> SETH SHERMAN REGISTERED PROFESSIONAL ENGINEER No. M33583 Exp. Dec. 31, 2015 MECHANICAL STATE OF CALIFORNIA</div>		ARCHITEC/ENGINEERS: <div>KPA THE KPA GROUP</div> <div>ENGINEERS ARCHITECTS ONE KAISER PLAZA SUITE 445 OAKLAND CALIFORNIA 94612 TEL 510.271.6701 FAX 510.271.6707 ©THE KPA GROUP 2013 KPA Project No. 563.00</div>		<div>Drawing Title</div> <div>MECHANICAL HVAC ROOF PLAN</div> <div>Approved: Project Director</div> <div>VAPAHCS PLANNING AND ENGINEERING</div>		<div>Project Title</div> <div>NEW OFFICE AND LABS</div> <div>Location</div> <div>1080 INNOVATION WAY, SUNNYVALE, CA 94085</div> <div>Date</div> <div>05/09/2014</div> <div>Checked</div> <div>SS</div> <div>Drawn</div> <div>JP</div>		<div>Project Number</div> <div>640-379</div> <div>Building Number</div> <div>1002</div> <div>Drawing Number</div> <div>MH-103</div> <div>Dwg. of</div> <div></div>		<div>Office of Construction and Facilities Management</div> <div>VAPAHCS <small>Veterans Affairs Palo Alto Health Care System</small></div>	
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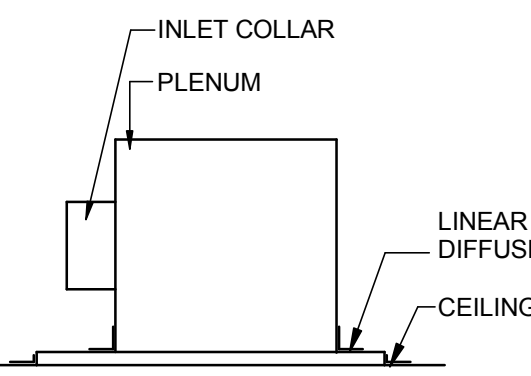


NOTE:
THE USE OF FLEXIBLE AIR DUCT CONNECTORS ARE NOT PERMITTED FOR THE DEDICATED AHU SERVING THE SURGICAL SUITE.

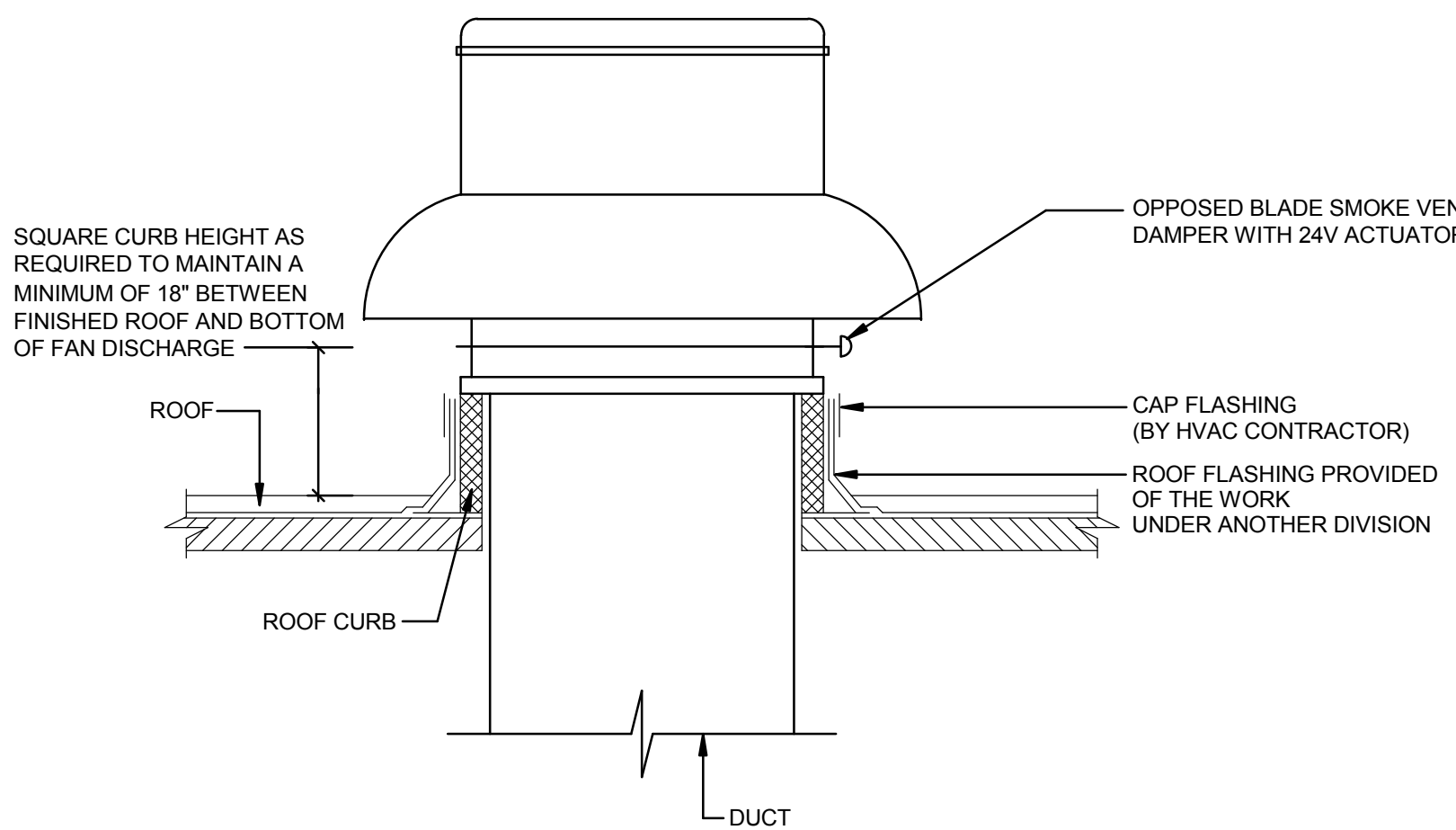
FLEXIBLE AIR DUCT CONNECTOR 10



NOTES:
1. COORDINATE SLOT DIFFUSER FRAME/BORDER TYPE AND END BORDER CONFIGURATION WITH CEILING TYPE.

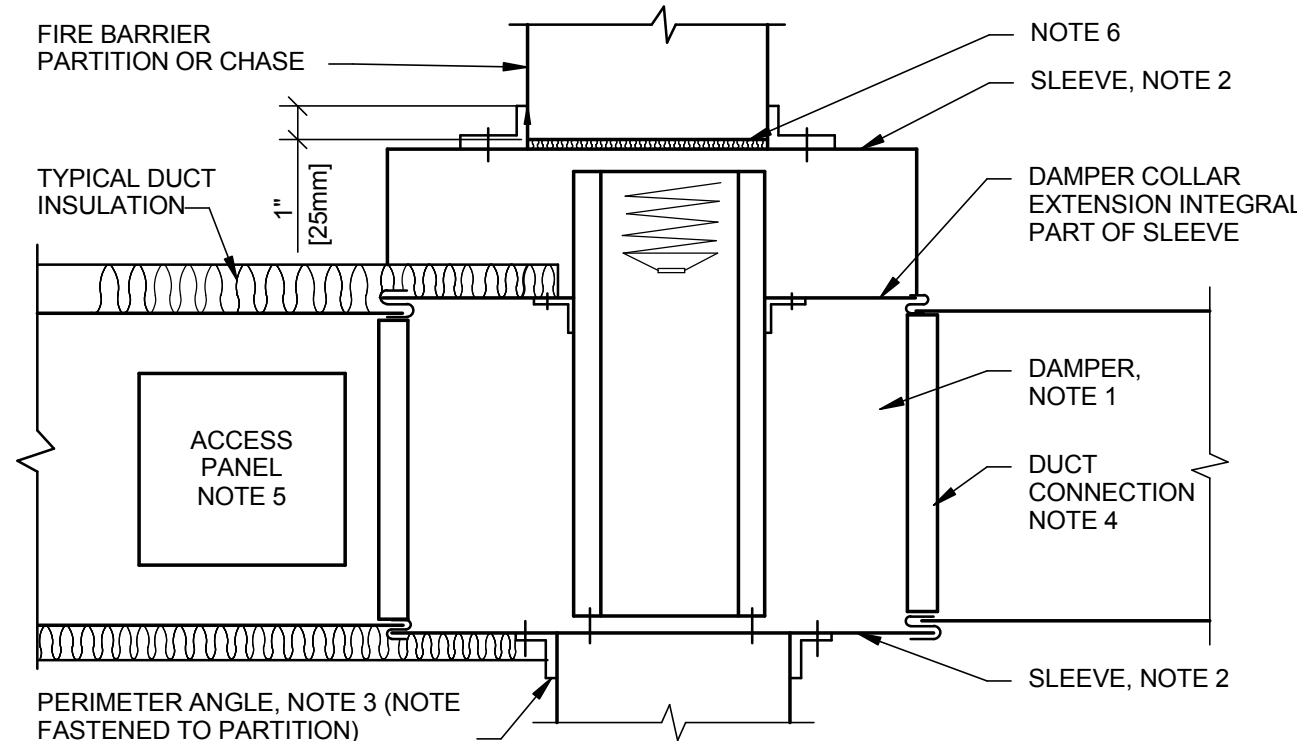


LINEAR SLOT DIFFUSER 11



NOTES:
DUCT SHALL BE 1" SMALLER THAN ROOF OPENING.
ROOF OPENING SHALL CONFORM TO CURB SIZE.

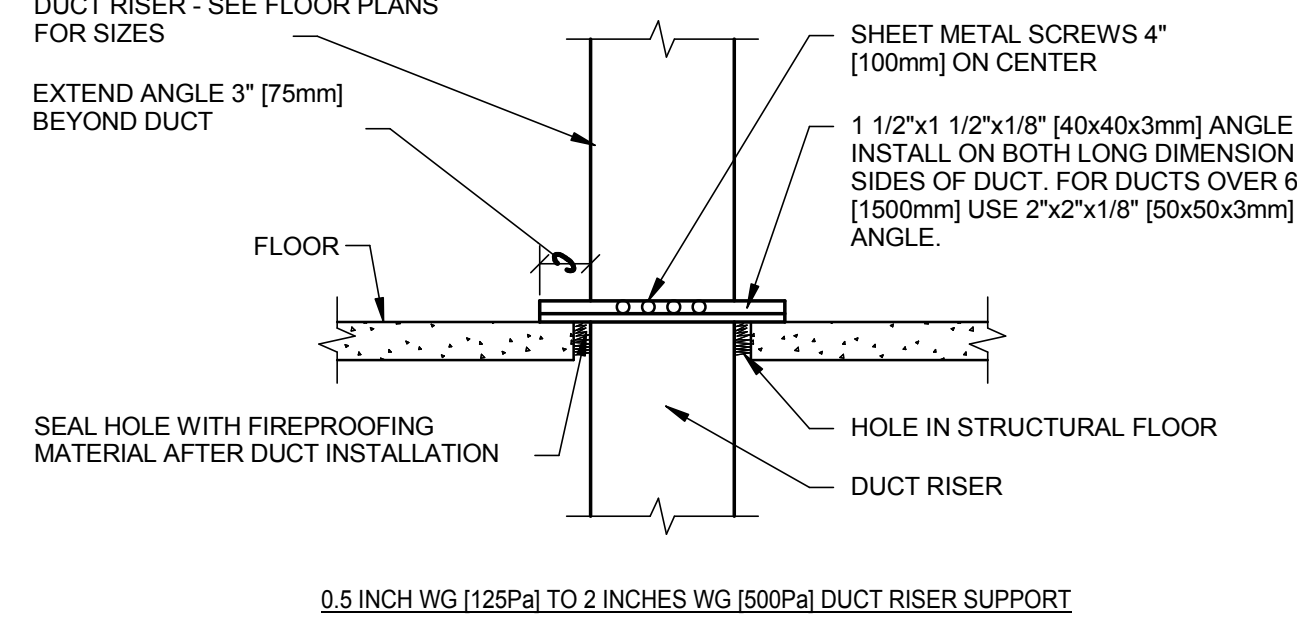
ELEVATOR HOIST WAY DAMPER DETAIL 12



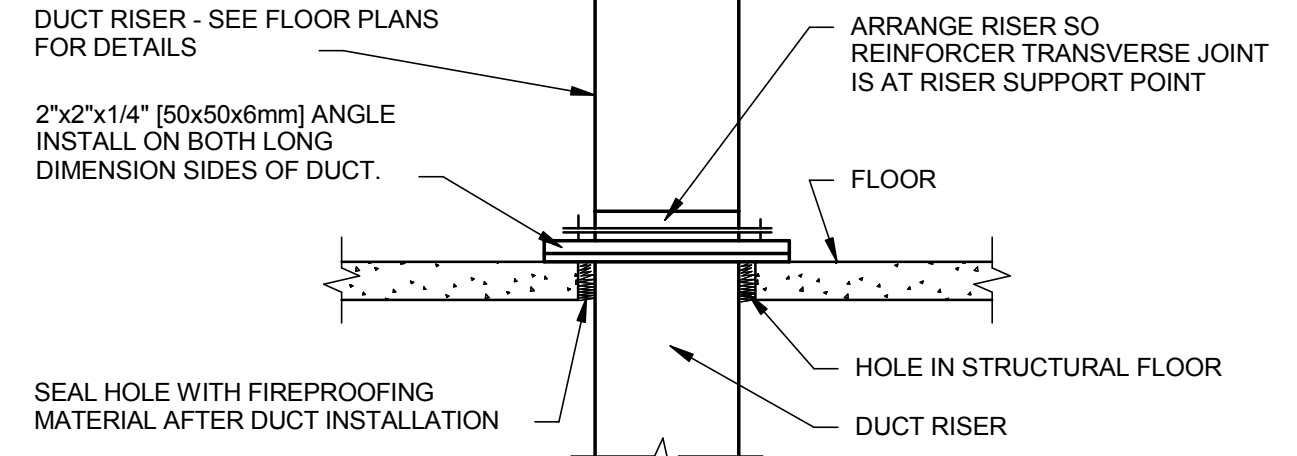
NOTE:

1. A VERTICAL DAMPER IS SHOWN. HORIZONTAL DAMPER INSTALLATION, IS SIMILAR. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE AND PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR AND NOT OUTSIDE THE PENETRATION.
2. GALVANIZED SLEEVE: GAGE NOT LESS THAN CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME AND TO PERIMETER ANGLES.
3. PERIMETER ANGLES: GALVANIZED STEEL, NOT LESS THAN 1 1/2"x1 1/2" [40x40mm], 14 GAGE, TO PROVIDE 1" [25mm] MINIMUM OVERLAP OF OPENING ON ALL 4 SIDES.
4. BREAKAWAY DUCT CONNECTION: CONTRACTOR'S OPTION OF TYPES SHOWN IN SMACNA ACCESS PANELS: SIZE AND LOCATION TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
5. PROVIDE 1/4" TO 1/2" [6 TO 15mm] CLEARANCE ON HEIGHT AND WIDTH. FILL OPEN SPACE WITH ROCK WOOL FIRESTOP FIBER.
6. ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND MECHANICAL ROOM FLOORS, SHALL BE PROVIDED WITH 3" [75mm] HIGH CONCRETE CURB AROUND OPENING FOR DUCT.
- 7.

SECTION THRU FIRE DAMPER INSTALLATION 7



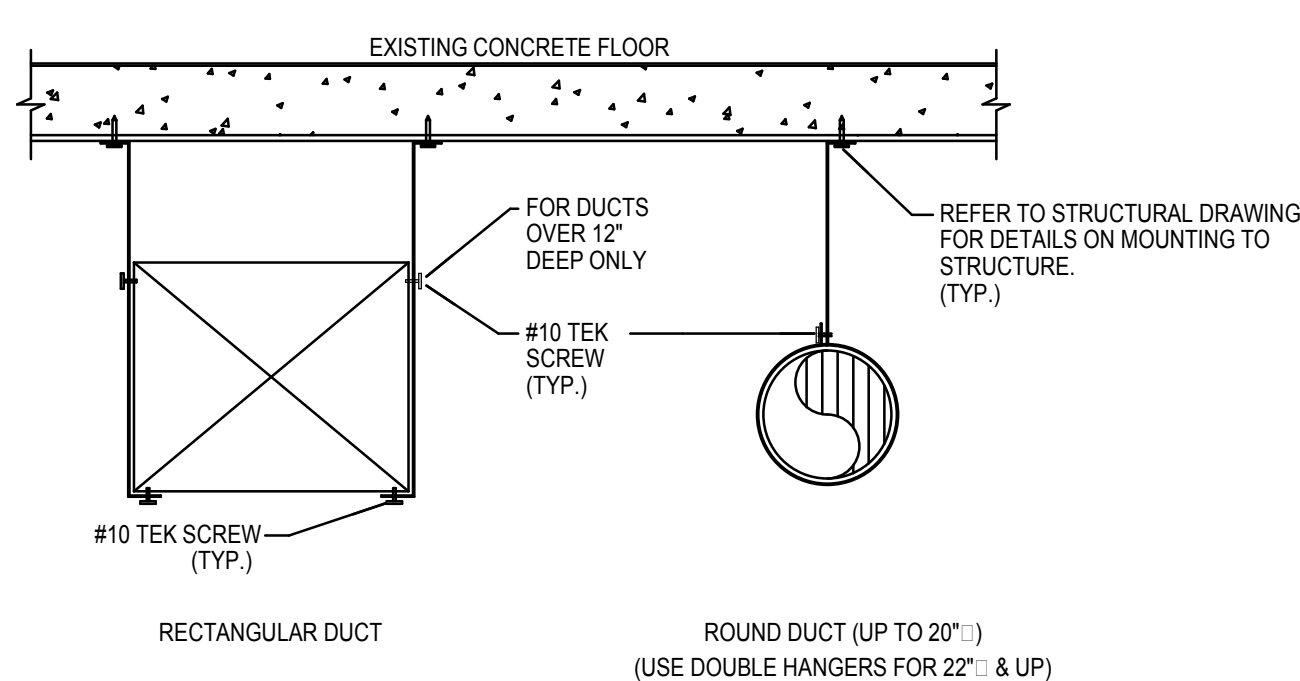
0.6 INCH WG [125Pa] TO 2 INCHES WG [500Pa] DUCT RISER SUPPORT



2 INCHES WG [500Pa] TO 4 INCHES WG [1000Pa] DUCT RISER SUPPORT

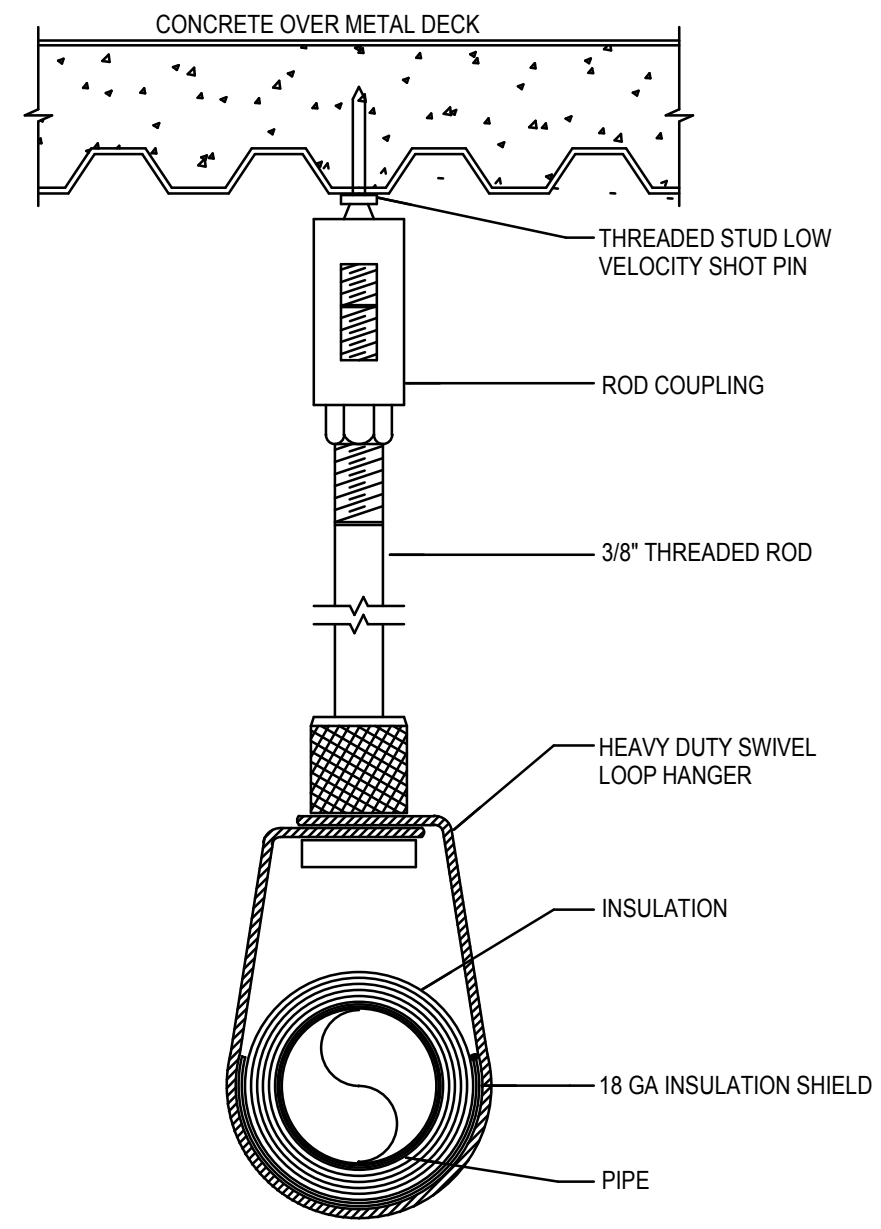
NOTE:
ALL DUCT WORK RISERS WHICH ARE RUN EXPOSED, SUCH AS THRU ATTIC FLOORS AND FAN ROOM FLOORS SHALL BE PROVIDED WITH A 3" [75mm] HIGH CONCRETE CURB AROUND OPENING FOR DUCT.

DUCT RISER SUPPORTS 8

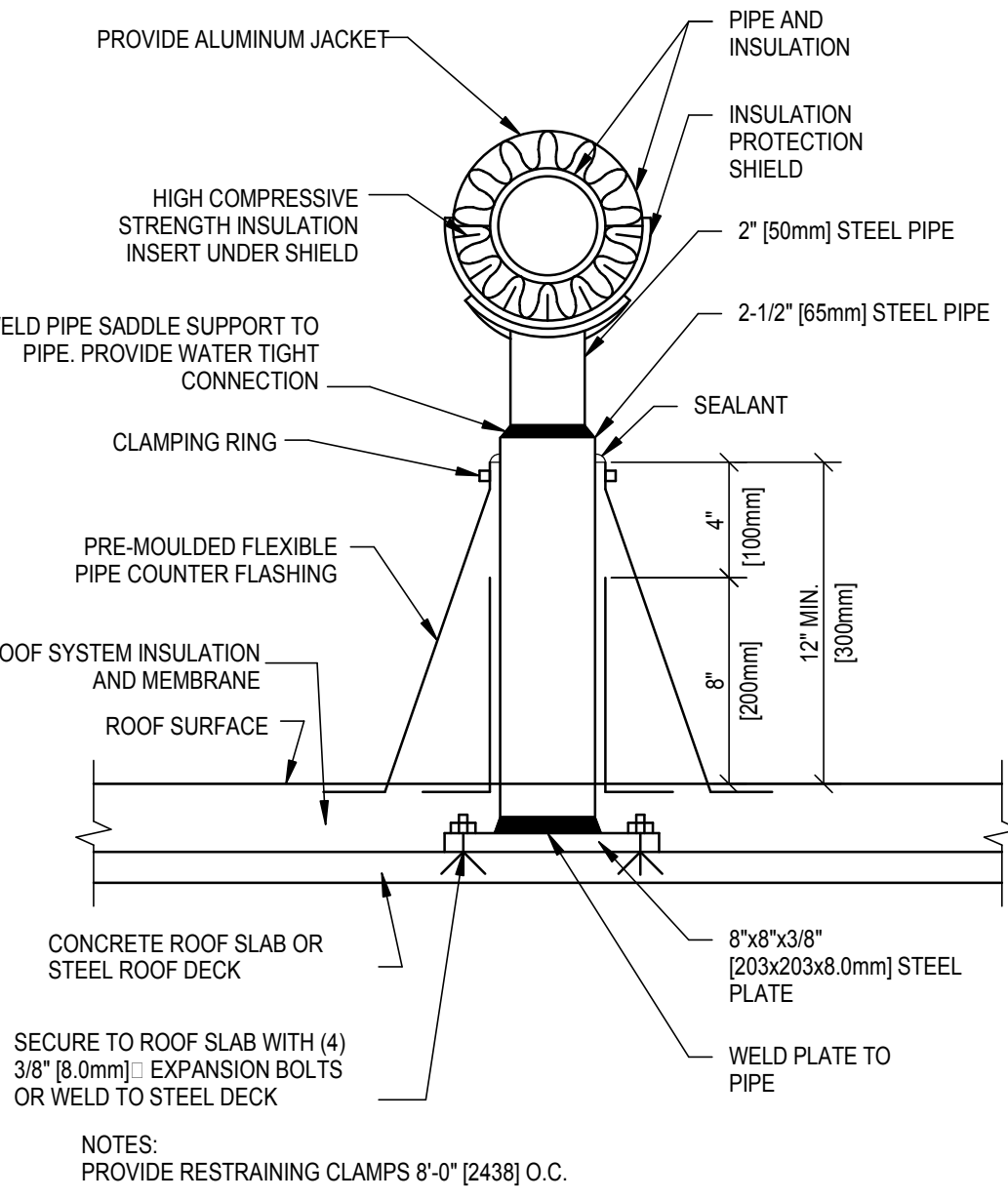


NOTE:
SIZE STRAP HANGERS PER SMACNA.

DUCT HANGING DETAIL 9

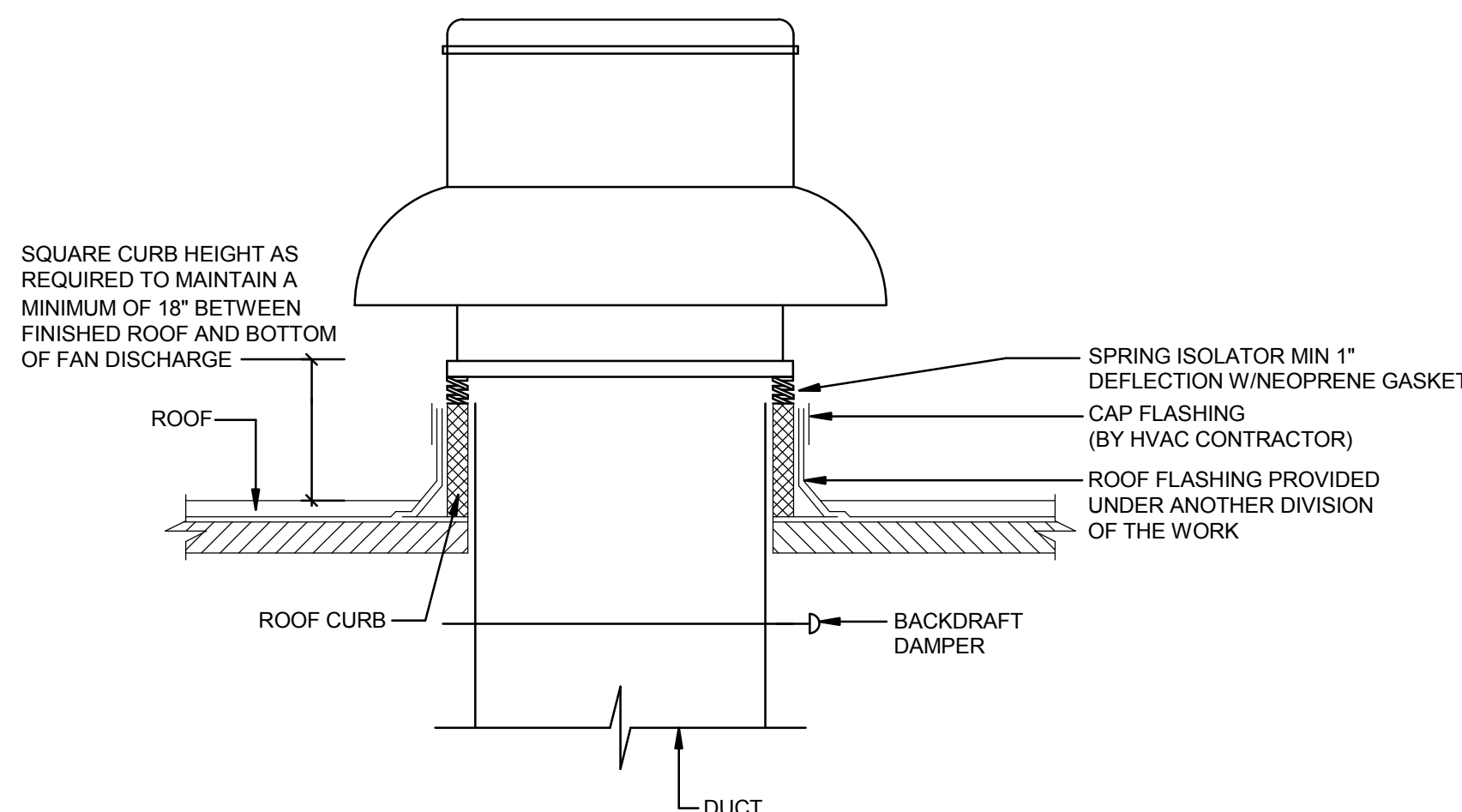


PIPE HANGING DETAIL 4



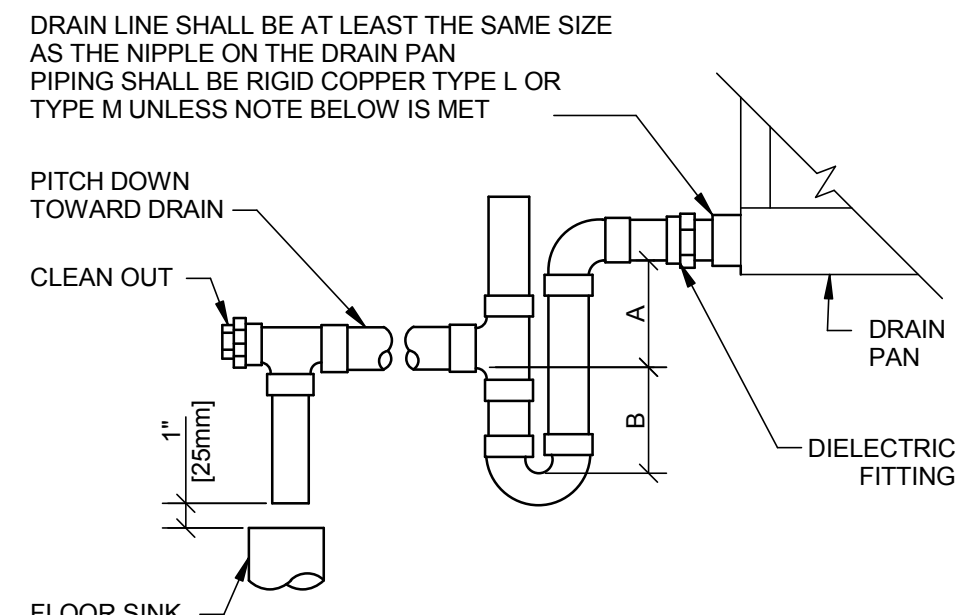
NOTES:
PROVIDE RESTRAINING CLAMPS 8'-0" [2438] O.C.

DETAIL FOR SUPPORTING PIPE ON ROOF 5



NOTES:
DUCT SHALL BE 1" SMALLER THAN ROOF OPENING.
ROOF OPENING SHALL CONFORM TO CURB SIZE.

ROOF MOUNTED EXHAUST FAN DETAIL 6

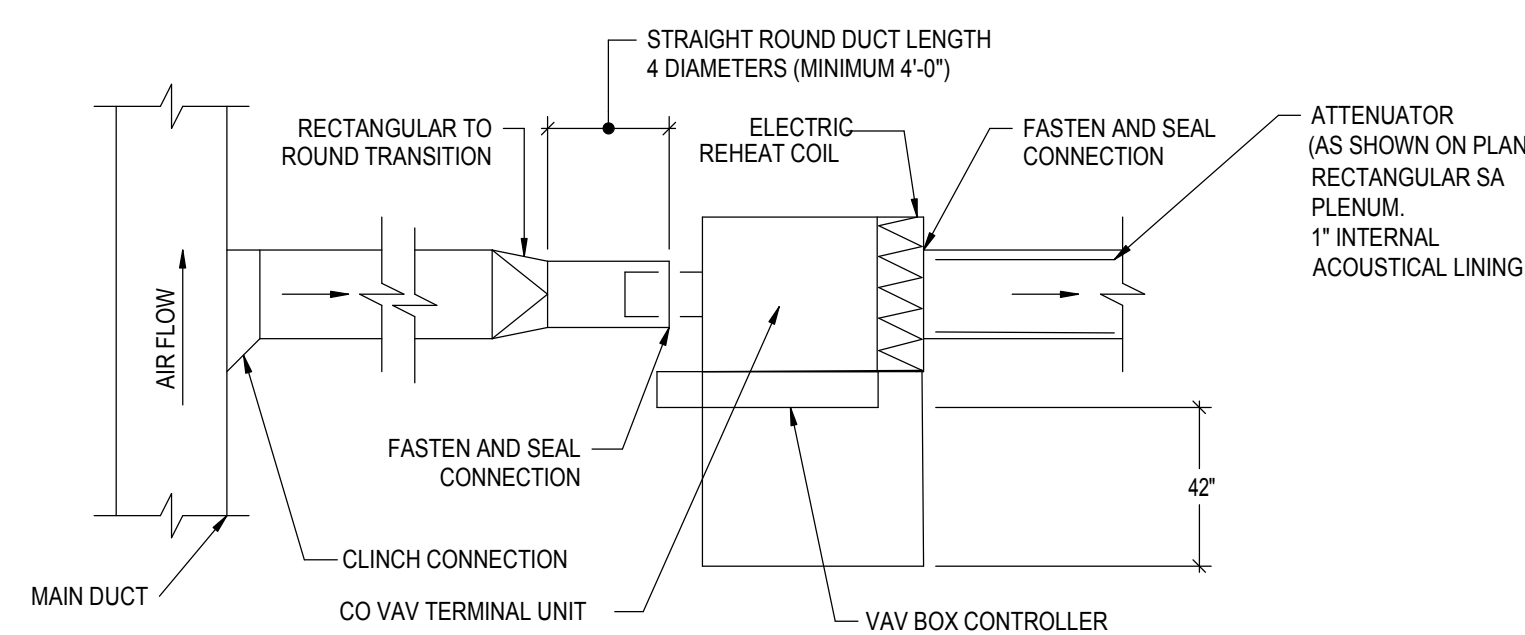


NOTE: 1. CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS. 2. DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.

UNIT TYPE	A	B
DRAW THRU	2" (50mm) PLUS X	X
BLOW THRU	1" (25mm) MINIMUM	2X

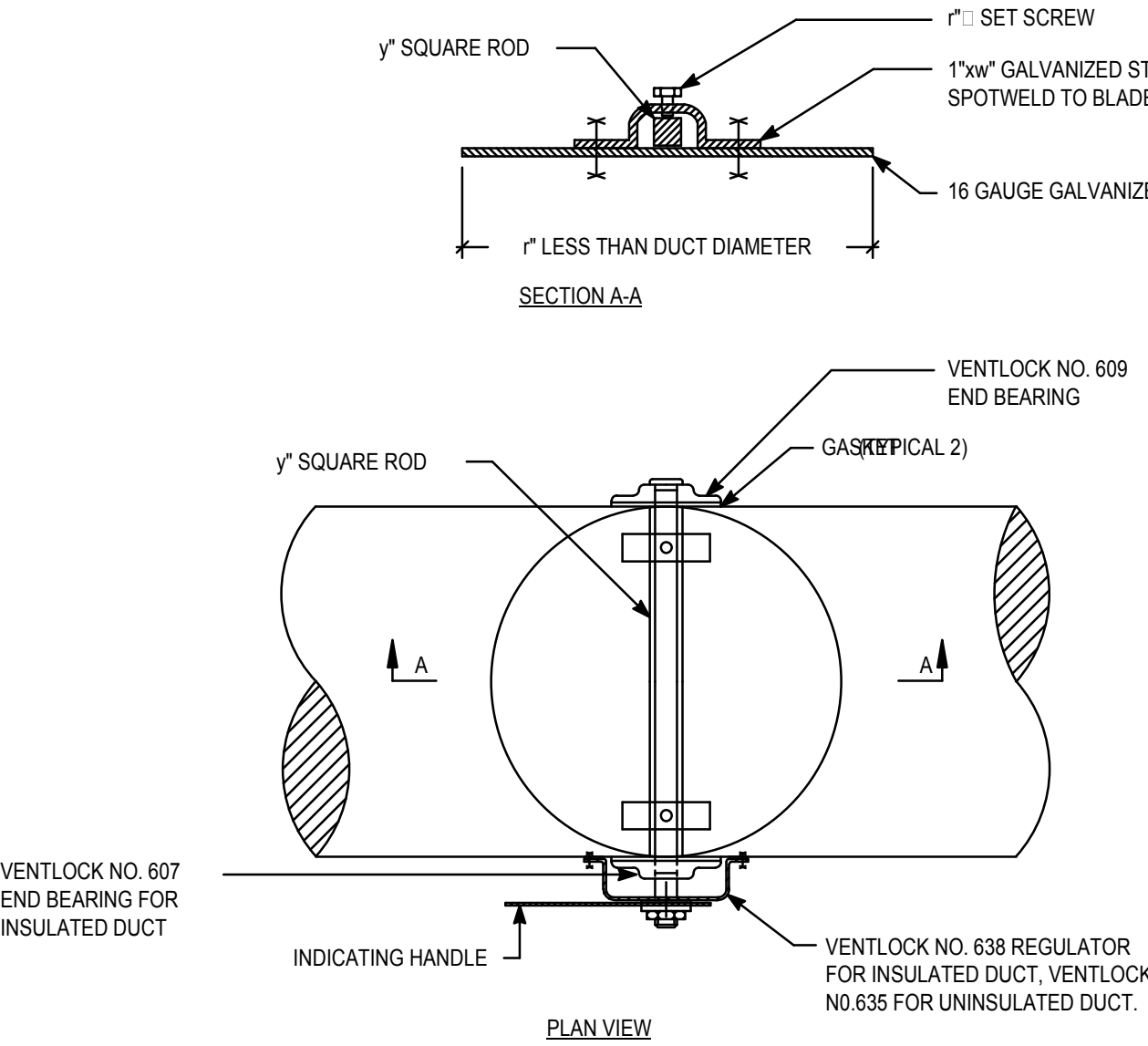
WHERE X = -0.90 TO -1.00" STATIC PRESSURE IN PAN

AIR HANDLING UNIT DRAIN TRAP DETAIL 1



- NOTES:
1. THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT. THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED TOO CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
 2. WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS, AS INDICATED ABOVE, CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY THE MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
 3. MANUFACTURER OF TERMINAL UNIT SHALL PROVIDE CONTROLS ON LEFT OR RIGHT SIDE, AS REQUIRED BY FIELD CONDITIONS.
 4. ARRANGE ACCESS TO PERMIT EASY FIELD BALANCE AND MAINTENANCE OF TERMINAL UNIT.
 5. PROVIDE AT LEAST 42" CLEARANCE IN FRONT OF ELECTRICAL PANEL CONNECTION AND CONTROL PANEL. VERIFY IN FIELD BEFORE INSTALLING TO ENSURE PROPER CLEARANCE.
 6. PROVIDE AT LEAST 42" CLEARANCE IN FRONT OF ELECTRIC REHEAT PANEL CONNECTION. VERIFY IN FIELD BEFORE INSTALLING TO ENSURE PROPER CLEARANCE.

TERMINAL UNIT INSTALLATION (PLAN VIEW) 2



VOLUME DAMPER DETAIL 3

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KPA Project No. 563.00

Drawing Title

MECHANICAL DETAILS

Approved: Project Director

VAPAHCS PLANNING AND ENGINEERING

Project Title

NEW OFFICE AND LABS

Location

1080 INNOVATION WAY, SUNNYVALE, CA 94085

Date

05/09/2014

Checked

SS

Drawn

JP

Project Number

640-379

Building Number

1002

Drawing Number

M-501

Dwg. of

Office of

Construction

and Facilities

Management

VA & PAHCS

Veterans Affairs Palo Alto Health Care System

A

B

C

D

E

F

A

B

C

D

E

F

three inches = one foot

one and one half inches = one foot

one inch = one foot

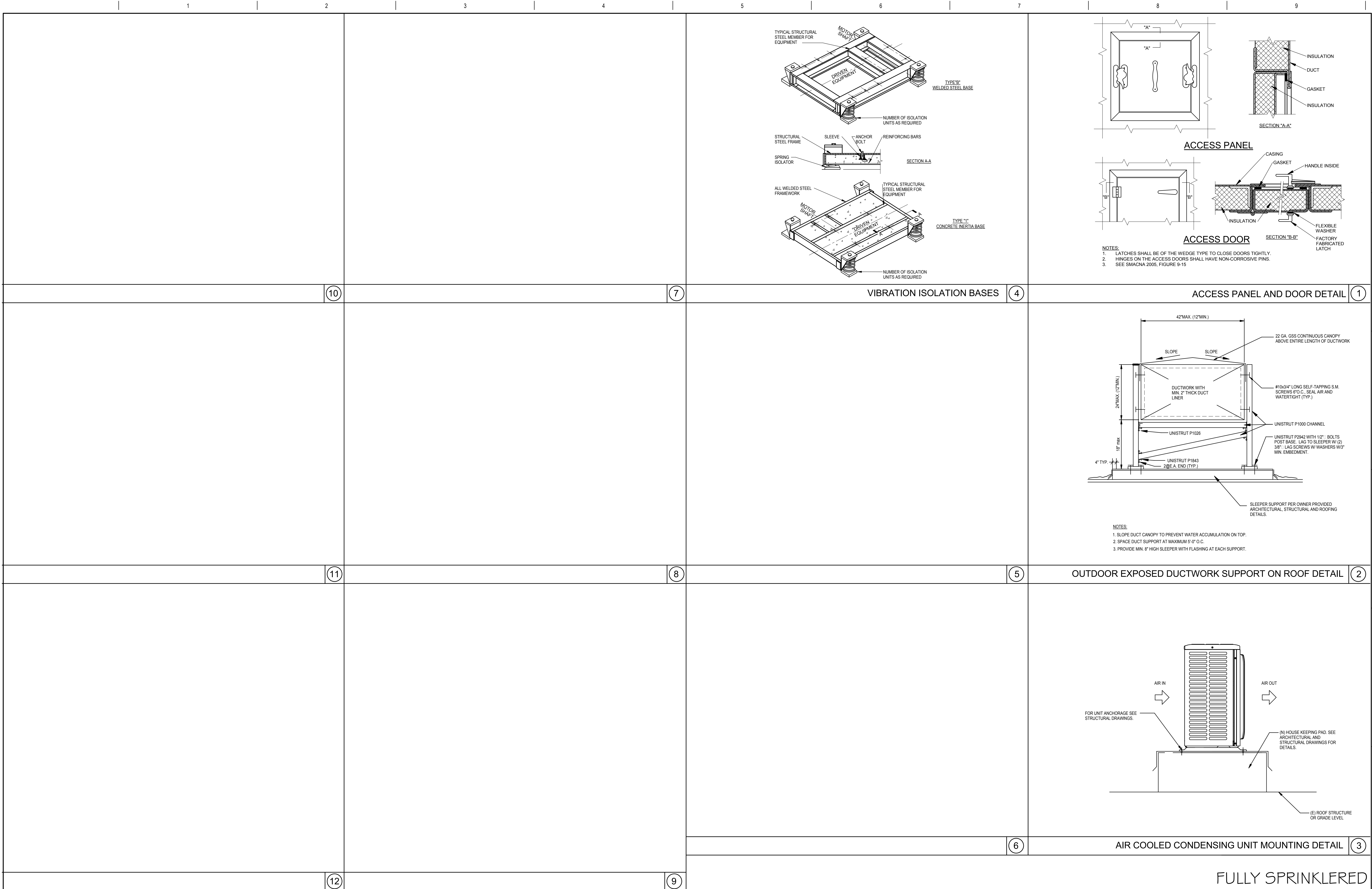
three quarters inch = one foot

one half inch = one foot

three eighths inch = one foot

one quarter inch = one foot

one eighth inch = one foot



CONSULTANTS: Syska Hennessy Group, Inc. 425 California Street Suite 700 San Francisco, CA 94104 Tel: 415.258.9560 Fax: 415.835.0385 www.syska.com		ARCHITEC/ENGINEERS: ENGINEERS ARCHITECTS ONE KAISER PLAZA SUITE 445 OAKLAND CALIFORNIA 94612 TEL 510.271.6701 FAX 510.271.6707 ©THE KPA GROUP 2013 KPA Project No. 563.00		Drawing Title MECHANICAL DETAILS		Project Title NEW OFFICE AND LABS		Project Number 640-379		Office of Construction and Facilities Management	
Revision		Stamp and Signature 		Approved: Project Director - VAPAHCS PLANNING AND ENGINEERING		Location 1080 INNOVATION WAY, SUNNYVALE, CA 94085		Building Number 1002		Drawing Number M-502	
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